

SEQUENCE LISTING

<110> Harrington, et al.

<120> Mammalian Flap Specific-Endonuclease

<130> 9584-017

<140> 09/586,744

<141> 2000-06-02

<160> 74

<170> PatentIn version 3.0

<210> 1

<211> 380

<212> PRT

<213> Homo sapiens

<400> 1

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Gly Gly Asp Val Leu Gln Asn Glu Glu Gly Glu Thr Thr Ser His Leu
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Pro Val Tyr Val Phe Asp Gly Lys Pro Pro Gln Leu Lys Ser Gly Glu

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<213> Homo sapiens

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<213> Mus musculus

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<212> PRT

<213> *Saccharomyces cerevisiae*

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<213> *Saccharomyces cerevisiae*

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<212> DNA

<213> *Saccharomyces cerevisiae*

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Val Asp Leu Ile Gln Lys His Lys Ser Ile Glu Glu Ile Val Arg Arg	
245 250 255 260	
ctg gac ccc agc aag tac ccc gtt cca gag aac tgg ctc cac aag gaa	931
Leu Asp Pro Ser Lys Tyr Pro Val Pro Glu Asn Trp Leu His Lys Glu	
265 270 275	
gcc cag cag ctc ttc ctg gag cca gaa gta gtg gac cca gag tct gtg	979
Ala Gln Gln Leu Phe Leu Glu Pro Glu Val Val Asp Pro Glu Ser Val	

280	285	290	
gag ctg aag tgg agc gag cca aat gaa gaa gag ttg gtc aaa ttt atg			1027
Glu Leu Lys Trp Ser Glu Pro Asn Glu Glu Glu Leu Val Lys Phe Met			
295	300	305	
tgt ggt gaa aag cag ttt ttt gaa gag cga att cgc agt ggg gtc aag			1075
Cys Gly Glu Lys Gln Phe Phe Glu Glu Arg Ile Arg Ser Gly Val Lys			
310	315	320	
cgg ctg agt aag agc cgc cag ggc agc acc cag gga cgc ctc gat gat			1123
Arg Leu Ser Lys Ser Arg Gln Gly Ser Thr Gln Gly Arg Leu Asp Asp			
325	330	335	340
ttc ttc aag gtg aca ggc tca ctc tcc tca gct aag cgc aag gag cca			1171
Phe Phe Lys Val Thr Gly Ser Leu Ser Ser Ala Lys Arg Lys Glu Pro			
345	350	355	
gaa ccc aag ggg cct gct aag aag aaa gca aag act ggg gga gcg ggg			1219
Glu Pro Lys Gly Pro Ala Lys Lys Lys Ala Lys Thr Gly Gly Ala Gly			
360	365	370	
aag ttc cga agg gga aaa taaacctgtc cttccccctcc actgtccttg			1267
Lys Phe Arg Arg Gly Lys			
375			
accccaggct gtctatctgt tttgtaccct cggctgcagc acatccctct tgtccctcgt			1327
cttgaggaga gttcattgct tccagcgctg cccttcagag ctttccctct cttgaccctg			1387
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aaaccacttc tcaggttaat ggacactgta gtcattgttc tgtgcaactg cgagcaatgt			1507
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ctggtggagg agagggtgact agaacctgac tgactactgc tccttctaataa ttcactgtcc			1627
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agagaagtct ggctgacaac agatttagta ctgaccagct gattttttgtg ggcagaaatt			1747
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ggcaaaggca ttaagtgtgc cactgacctg tgccctccaag tgatgttctg acagcctttc			1927
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<213> Mus musculus

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1 5 10 15

Ala Ile Arg Glu Asn Asp Ile Lys Ser Tyr Phe Gly Arg Lys Val Ala
20 25 30

Ile Asp Ala Ser Met Ser Ile Tyr Gln Phe Leu Ile Ala Val Arg Gln
35 40 45

Gly Gly Asp Val Leu Gln Asn Glu Glu Gly Glu Thr Thr Ser Leu Met
50 55 60

Gly Met Phe Tyr Arg Thr Met Arg Met Glu Asn Gly Ile Lys Pro Val
65 70 75 80

Tyr Val Phe Asp Gly Lys Pro Pro Gln Leu Lys Ser Gly Glu Leu Ala
85 90 95

Lys Arg Ser Glu Arg Arg Ala Glu Ala Glu Lys Gln Leu Gln Gln Ala
100 105 110

Gln Gln Ala Gly Met Glu Glu Glu Val Glu Lys Phe Thr Lys Arg Leu
115 120 125

Val Lys Val Thr Lys Gln His Asn Asp Glu Cys Lys His Leu Leu Ser
130 135 140

Leu Met Gly Ile Pro Tyr Leu Asp Ala Pro Ser Glu Ala Glu Ala Ser
145 150 155 160

Cys Ala Ala Leu Ala Lys Ala Gly Lys Val Tyr Ala Ala Ala Thr Glu
165 170 175

Asp Met Asp Cys Leu Thr Phe Gly Ser Pro Val Leu Met Arg His Leu
180 185 190

Thr Ala Ser Glu Ala Lys Lys Leu Pro Ile Gln Glu Phe His Leu Ser
195 200 205

Arg Val Leu Gln Glu Leu Gly Leu Asn Gln Glu Gln Phe Val Asp Leu
 210 215 220

Cys Ile Leu Leu Gly Ser Asp Tyr Cys Glu Ser Ile Arg Gly Ile Gly
 225 230 235 240

Ala Lys Arg Ala Val Asp Leu Ile Gln Lys His Lys Ser Ile Glu Glu
 245 250 255

Ile Val Arg Arg Leu Asp Pro Ser Lys Tyr Pro Val Pro Glu Asn Trp
 260 265 270

Leu His Lys Glu Ala Gln Gln Leu Phe Leu Glu Pro Glu Val Val Asp
 275 280 285

Pro Glu Ser Val Glu Leu Lys Trp Ser Glu Pro Asn Glu Glu Glu Leu
 290 295 300

Val Lys Phe Met Cys Gly Glu Lys Gln Phe Phe Glu Glu Arg Ile Arg
 305 310 315 320

Ser Gly Val Lys Arg Leu Ser Lys Ser Arg Gln Gly Ser Thr Gln Gly
 325 330 335

Arg Leu Asp Asp Phe Phe Lys Val Thr Gly Ser Leu Ser Ser Ala Lys
 340 345 350

Arg Lys Glu Pro Glu Pro Lys Gly Pro Ala Lys Lys Lys Ala Lys Thr
 355 360 365

Gly Gly Ala Gly Lys Phe Arg Arg Gly Lys
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28

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<212> PRT

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Arg Glu Asn Asp Ile Lys
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<211> 16

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<213> Homo sapiens

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1 5 10 15

<210> 17

<211> 22

<212> PRT

<213> Homo sapiens

<400> 17

Thr Ser His Leu Met Gly Met Phe Tyr Arg Thr Ile Arg Met Met Glu
1 5 10 15

Asn Gly Ile Lys Pro Val
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<210> 18

<211> 24

<212> PRT

<213> Homo sapiens

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Gly Lys Pro Pro Gln Leu Lys Ser Gly Glu Leu Ala Lys Arg Ser Glu
1 5 10 15

Arg Arg Ala Glu Ala Glu Lys Gln
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<210> 19

<211> 20

<212> PRT

<213> Homo sapiens

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Glu Gln Glu Val Glu Lys Phe Thr Lys Arg Leu Val Lys Val Thr Lys
1 5 10 15

Gln His Asn Asp
20

<210> 20

<211> 25

<212> PRT

<213> Homo sapiens

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Leu Leu Ser Leu Met Gly Ile Pro Tyr Leu Asp Ala Pro Ser Glu Ala
1 5 10 15

Glu Ala Ser Cys Ala Ala Leu Val Lys
20 25

<210> 21

<211> 23

<212> PRT

<213> Homo sapiens

<400> 21

Leu Thr Phe Gly Ser Pro Val Leu Met Arg His Leu Thr Ala Ser Glu
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Ala Lys Lys Leu Pro Ile Gln
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<210> 22

<211> 21

<212> PRT

<213> Homo sapiens

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Ile Leu Gln Glu Leu Gly Leu Asn Gln Glu Gln Phe Val Asp Leu Cys
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Ile Leu Leu Gly Ser
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<210> 23

<211> 24

<212> PRT

<213> Homo sapiens

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Arg Gly Ile Gly Pro Lys Arg Ala Val Asp Leu Ile Gln Lys His Lys
1 5 10 15

Ser Ile Glu Glu Ile Val Arg Arg
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<210> 24

<211> 20

<212> PRT

<213> Homo sapiens

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Pro Glu Asn Trp Leu His Lys Glu Ala His Gln Leu Phe Leu Glu Pro
1 5 10 15

Glu Val Leu Asp
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<210> 25

<211> 22

<212> PRT

<213> Homo sapiens

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Trp Ser Glu Pro Asn Glu Glu Glu Leu Ile Lys Phe Met Cys Gly Glu

1 5 10 15

Lys Gln Phe Ser Glu Glu
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<211> 22

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<213> Homo sapiens

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1 5 10 15

Lys Val Thr Gly Ser Leu
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Lys Glu Pro Glu Pro Lys Gly Ser Thr Lys Lys Lys Ala Lys Thr Gly
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cagttcctga ttgctgttcg ccaggggtggg gatgtgctgc agaatgagga gggtagagacc 180

accagccacc tgatggggcat gttctaccgc accattcgca tgatggagaa cggcatcaag 240

cccgtgtatg tctttgatgg caagccgcca cagctcaagt caggcgagct ggccaaacgc 300

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aagctgccaa tccaggaatt ccacctgagc cggattctgc aggagctggg cctgaaccag	660
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gatgatttct tcaagggtgac cggctcactc tcttcagcta agcgcaagga gccagaaccc	1080
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